

Title (en)
CONVERTIBLE METALLURGICAL FURNACE AND MODULAR METALLURGICAL PLANT COMPRISING SAID FURNACE FOR CONDUCTING PRODUCTION PROCESSES FOR THE PRODUCTION OF METALS IN THE MOLTEN STATE, IN PARTICULAR STEEL OR CAST IRON

Title (de)
UMWANDELBARER METALLURGISCHER OFEN UND MODULARE METALLURGISCHE ANLAGE MIT DIESEM OFEN ZUR DURCHFÜHRUNG VON PRODUKTIONSPROZESSEN ZUR HERSTELLUNG VON METALLEN IM GESCHMOLZENEN ZUSTAND, INSBESONDERE AUS STAHL ODER GUSSEISEN

Title (fr)
FOUR MÉTALLURGIQUE CONVERTIBLE ET INSTALLATION MÉTALLURGIQUE MODULAIRE COMPRENANT LEDIT FOUR POUR LA CONDUITE DE PROCESSUS DE PRODUCTION EN MATIÈRE D'ÉLABORATION DE MÉTAUX EN FUSION, EN PARTICULIER L'ACIER OU LA FONTE

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Application
EP 16923091 A 20161202

Priority
CN 2016108420 W 20161202

Abstract (en)
[origin: WO2018098817A1] A metallurgical furnace (10) of the convertible type to an electric arc furnace or to a converter for conducting production processes for the production of metals in the molten state, in particular steel or cast iron, it comprises a vessel, in turn comprising a lower shell (11) for containing the metal bath, the metal bath being composed of molten metal and an overlying layer of slag, wherein the lower shell (11) is tiltingly supported and is provided with a deslagging opening (15) for evacuating the slag and with a tapping opening (16) for tapping the molten metal, and an upper shell (12) removably positioned on the lower shell (11) and provided with at least one inlet opening (17a, 17b) for feeding, through the same, charge material in the solid state or in the molten state, a closing roof (13) for the upper closing of the vessel, wherein the closing roof (13) is removably positioned on the upper shell (12) and is provided with a passage opening (18) for the passage, through the same, of at least one electrode (E) and at least one charge opening (20) for feeding, through the same, charge material in the solid state, wherein at least one of the inlet openings (17a, 17b), the passage opening (18), the charge opening (20) is closed or can be associated with a closing element of the removable type, and wherein the lower shell (11) has a diameter D and the vessel has an overall height H ranging from 0.70D to 1.25D, preferably ranging from 0.70D to 0.80D if the furnace is used as an electric arc furnace and from 0.80D to 1.25D if the furnace is used as a converter.

IPC 8 full level
C21B 11/10 (2006.01)

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